```
Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                            Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Run
                                                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Perfect score:
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-047-593-5
2580
1 geggeegegtaataegaete......egetetaggaagggteaegt 2580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                February 3, 2003, 16:20:58; Search time 90 Seconds (without alignments)
12878.925 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               396772 seqs, 224632407 residues
                                                                                                                                                                                                                                                                                                      Published_Applications_NA:*
l: /cgn2_6/ptodata/2/pubpna
                                                                 Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                            Maximum Match 100%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GenCore version 5.1.3 Compugen Ltd.
```

SUMMARIES

^	0		•	^	o	_				_			_	_	0				. 🛪
19	18	17	16	15	14	13	12	1	10		00	7	6	·	4-		· N	. بــ	Result No.
40.8	40.8	41	41	42.4	45	45	45.2	45.2	45.2	46.2	46.4	46.4	61.8	66	68.6	82.8	2579.6	2579.6	Score
1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.6	2.7	3.2	100.0	100.0	Query
1951	726	494	479	375	7789	2580	32195	32195	32195	299	659158	305	266	281	12561	233	7789	2580	Query Match Length
10	10	10	10	10	9	9	10	10	10	10	9	10	10	10	9	10	9	9	BB
US-09-864-761-2926	US-09-864-761-19707	US-09-864-761-2947	US-09-864-761-3539	US-09-960-352-15014	US-10-047-593-3	US-10-047-593-5	US-09-764-869-1605	US-09-764-870-617	US-09-764-870-611	US-09-864-761-21553	US-09-771-208-20	US-09-864-761-19262	US-09-923-876-3931	US-09-923-876-4089	US-10-005-057A-41	US-09-923-876-3107	US-10-047-593-3	US-10-047-593-5	ID
	Sequence 19707. A	Sequence 2947. An	Sequence 3539. An	Sequence 15014. A	Sequence 3. Appli	Sequence 5. Appli		Sequence 617 App	Sequence 611. Ann	Sequence 21553. A	Sequence 20. Appl	Sequence 19262. A	Sequence 3931. An	Sequence 4089. An	Sequence 41, Appl	Sequence 3107. Ap		Sequence 5. Appli	Description

_	_			_	_	_	_		_			_			_				_						
ი										a		ი	Ω	a	O		Ω	a							
45	44	4	42	1	בי ב	. U	, G) (L) U		4.1	ü	32	<u>.</u>	0	29	28	27	26	7 0) (4 r		3 6) h	2 6
38.8	38.8	39	9	. u	, (L	υ (Δ) (L) (4)	39	39	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.6			39.6) ((. 4	
1.5	1.5	٠.5	, , ,				1.5		1.5		1.5		5	1.5	1.5	٠.5	1.5	1.5	1.5						
174424	15567	15714	9656	9656	2688	8895	496	464	276	216	53522	11967	11967	11962	11962	720	720	11872	8317	5387	1064	598	872	470	
10	12	10	10	10	10	10	10	10	10	10	9	10	10	10	10	ø	9	10	10	G	10	10	10	: :	; E
US-09-967-768A-314	US-10-047-676A-3	US-09-764-869-2355	US-09-764-853-933	US-09-764-853-886	US-09-764-853-937	US-09-764-853-887	US-09-864-761-2534	US-09-864-761-871	US-09-864-761-17651	US-09-864-761-20309	US-09-904-968A-1	US-09-991-630-3	US-09-905-129-3	US-09-991-630-20	US-09-905-129-20	US-10-101-487-76	US-10-101-487-74	US-09-764-847-1390	US-09-764-869-1279	US-10-001-873-22	US-09-804-682-29	US-09-864-761-7439	US-09-864-761-23306	US-09-864-761-2442	US-09-864-761-19728
	Sequence 3. Appli		933,	886,		Sequence 887, App	Sequence 2534, Ap	Sequence 871, App	Sequence 17651, A	Sequence 20309, A	Ξ.	Sequence 3, Appli	Sequence 3, Appli	Sequence 20, Appl	Sequence 20, Appl		Sequence 74, Appl	Sequence 1390, Ap	Sequence 1279, Ap	Sequence 22, Appl	29, A	Sequence 7439, Ap	Sequence 23306, A	Sequence 2442, Ap	Sequence 19728, i

ALIGNMENTS

```
; Sequence 5, Application US/10047593
; Patent No. US20020170094A1
; GENERAL INFORMATION:
APPLICANT: Crane, Edmund H. III
APPLICANT: Rice, Douglas A.
TITLE OF INVENTION: Maize NPR1 Polynucleotides and Methods
TITLE OF INVENTION: of Use
; FILE REFERENCE: 1090D2
; CURRENT APPLICATION NUMBER: US/10/047,593
; CURRENT APPLICATION NUMBER: 00/130,692
pRIOR APPLICATION NUMBER: 60/130,692
pRIOR APPLICATION NUMBER: 09/551,778
pRIOR APPLICATION NUMBER: 09/551,778
pRIOR APPLICATION DATE: 2000-04-18
           밁
                                             Ś
                                                                                  밁
                                                                                                               Ş
                                                                                                                                                          В
                                                                                                                                                                                         Ś
                                                                                                                                                                                                                                                                                                         US-10-047-593-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-047-593-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 1
                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 5
LENGTH: 2715
TYPE: DNA
                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                Matches 2580;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 6
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Zea mays FEATURE:
                                                                                                                                                                                                                                                                                                                     NAME/KEY: promoter LOCATION: (1)...(2715)
           121
                           121 GACAGTCAGGTGCCCCCTTCCGACCGTTGGCCTCGGCCACGTGTTTCGCGCGGGATCGCGGG 180
                                                                                                                     61
                                                                                                                                                                        GAAGCCGACCGTTGGCGCTTTGGAGCCGTTGGCGCACCGGACACTGTCCGGTGCACACCG 120
                                                                                                           GAAGCCGACCGTTGGCGCTTTGGAGCCGTTGGCGCACCGGACACTGTCCGGTGCACACCG 120
                                                                                                                                                Conservative
                                                                                                                                                                                                                         100.0%; Score 2579.6;
100.0%; Pred. No. 0;
ative 0; Mismatches
                                                                                                                                                                                                                                                              DB 9; Length 2580;
                                                                                                                                                                                                                           0; Indels
                                                                                                                                                                                                                           ..
```

Gaps

0

1081 1081 1141 1141 11201 1201	901 961 961 961 1021	721 721 781 781 841 841	Oy 481 T Db 481 T Oy 541 A Oy 601 C Oy 661 C Oy 661 C	181 C 181 C 241 C 241 C 301 C 301 C 301 C 361 J 421 J
GGTCCTCGACATGCAGGI 	ATGCACCTGA ATGCACCTGA GTCAACTACT; TATATAGTGC	ACAGTCCAA	ACTTGGTTTGTAGE	AGACCGTTGGC
COCTAGGCC	ATCAC	TGAATTATAGCGGASCGCGCTCTGAA		CCGACCGACCGTTGGCTCACCGGACAGTCC
CTTGGTGCTTACAAAGC CTTGGTGCTTACAAAAGC IIIIIIIIIIIIIIIIIIIIIIIIIIIIII	AAACTAGTTAGTT AAACTAGTTAGTTAGTT GTGGTTAACCCT HIHHHHH GTGGTTAACCCT GGTGTCCTAGGA GGTGTCCTAGGA GGTGTCCTAGGA	TICCO	Q−Q N−N N−N K−K	ICACCGGACAGTCCGGTGCAC
GTCCATAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	ATTOCCTTTCAGCACA	AGTGTGGCCTGTTTG	JACACTAAA ACTORNAA JACACTAAA CTGGCTGAC CTGGCTGAC	CACCAGACAC CACCAGACAC CACCAGACAC CACCAGACAC CACCAGACAC CACCAGACAC CACCCAGTCJ CACCAGTCACCTT CACAGACACACACCTT
TTIG 1140 TTIG 1140 TTIG 1200 TTIG 1200 TTIC 1260 TTIC 1260		AA 780 AA 780 AA 780 CT 840 CT 900 CT 900	TC 540 TC 540 AC 600 AC 600 CA 660 CA 660 CG 720 CG 720	TIN 480

1 CCAGCACCGGCCAACAATC	γQ
2281 GGACTCTTCTTCCAC	9d VQ
2221 TTCGATCCACTCTTTCCCCCATCCCTACTTCCACGCACTGCGTTTC	D
2161 TCTATTCTCCTTCCGGCGCCTCTCTAGTCTATTCTCCTTCCT	04 04
2101 GGTTTTCCTTCAAATTGCGCCGAAATACTCGAGATTTCTTGGATTTTTTTACTTGTT	Db Q9
2041 GCCGTCGACGTCACCCTGGTCAGGCGTCACTTGACGACGTATACAGGGGCA(d Vo
1981 TGC 1981 TGC	D Q
1921 GTAACAGAAAAACATGGACATATTGATTTTTGAAAAAAGAAATATTGACAGATAAGGTGT 19 	ρ γς
1861 CAT	QQ db
1801 GTA 1801 GTA	Db 92
р р	Db Qy
ې م	Db Qy
	ρ δ
11 11	P Q
H H	Qy Db
ř ř	₽ Q
10 10	gg dg
1321 CTATCTCGAAGATACATCTCGTTGCGGAAGCATAAGGTAGCTTTTGGAGGTAAAG	DB 99
1261 CTTTCGTCTTAATAAAGATCCATATTACATTTATATTTACATGTGTCATATATAT	D 99

180

```
CURRENT APPLICATION NUMBER: US/10/047,593
CURRENT FILING DATE: 2002-01-15
PRIOR APPLICATION NUMBER: 60/130,692
PRIOR FILING DATE: 1999-04-23
PRIOR APPLICATION NUMBER: 09/551,778
PRIOR FILING DATE: 2000-04-18
PRIOR FILING DATE: 2000-04-18
NUMBER OF SEQ ID NOS: 6
SOFTWARE: FRSUSEQ for Windows Version 4.0
SEQ ID NO 3
LENGTH: 7789
TYPE: DNA
                                                                                           밁
                                밁
                                                         á
                                                                                                                       S
                                                                                                                                                                                                                     US-10-047-593-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 2
US-10-047-593-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                     Matches 2580;
                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Crane, Edmund H. III
APPLICANT: Rice, Douglas A.
TITLE OF INVENTION: Maize NPR1 Polynucleotides and Methods
TITLE OF INVENTION: of Use
FILE REFERENCE: 1090D2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 3, Application US/10047593
Patent No. US20020170094A1
                                                                                                                                                                                                                                              LOCATION: (5666)...(5922)
NAME/KEY: 3'UTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Zea mays
FEATURE:
NAME/KEY: promoter
                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: exon
LOCATION: (278)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION: (1)...(2715)
NAME/KEY: 5'UTR
LOCATION: (2716)...(2781)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2341
                                61
                                                            61
                                                                                                                                                                     Local Similarity
                                                                                                                           μ
                                                                                                     GAAGCCGACCGTTGGCGCTTTGGAGCCGTTGGCGCACCGGACACTGTCCGGTGCACACCG 120
                                         GAAGCCGACCGTTGGCGCTTTGGAGCCGTTGGCGCACCCGGACACTGTCCGGTGCACACCG 120
                                                                                   GCTGGGAGGACTCGCGTGTGATTTACGCCGACTTCCGTGCCGCTCTAGGAAGGGTCACGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CATATTTTCTGTTCCTGGCCTGACGCAGCGCCGGTGAGATTTCAGTCCGGGATCGGCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CATATTTTCTGTTCCTGGCCTGACGCAGCGCCGGTGAGATTTCAGTCCGGGATCGGCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCTGGGAGGACTCGCGTGTGATTTACGCCGACTTCCGTGCCGCTCTAGGAAGGGTCACGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCCTTTTTCACTTGTCTGAGATTTAGCCACCGCCCGGTAGGAAGAAGAAGGGGAAGCAC
                                                                                                                                                                                                                                                                                       intron
(5476)...(5665)
                                                                                                                                                                                                                                                                                                                      exon
(5275)...(5475)
                                                                                                                                                                                                                                  (5926) . . . (6124)
                                                                                                                                                                                                                                                                                                                                                                                                           exon
                                                                                                                                                                                                                                                                                                                                                          (4739) . . . (5274)
                                                                                                                                                                                                                                                                                                                                                                                         (3988) . . . (4738)
                                                                                                                                                                                                                                                                                                                                                                                                                     (3436) . . . (3987)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    (2782) . . . (3435
                                                                                                                                                       Conservative
                                                                                                                                                               100.0%; Score 2579.6; 100.0%; Pred. No. 0;
                                                                                                                                                   0,
                                                                                                                                                   Mismatches
                                                                                                                                                                               DB 9; Length 7789;
                                                                                                                                                  0;
                                                                                                                                                   Indels
                                                                                                                                                  0
                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2400
                                                                                                                                                0
      Ś
                                     밁
                                                                 á
                                                                                                  В
                                                                                                                            Ś
                                                                                                                                                             뭥
                                                                                                                                                                                         á
                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                    Ş
                                                                                                                                                                                                                                                                                       망
                                                                                                                                                                                                                                                                                                                   5
                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                 S
                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                            Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
        1201
                                                                                                                                                             1021
                                                                                                                                                                                           1021
                                                                                                                                                                                                                                                                                       901
                                                                                                                                                                                                                                                                                                                    901
                                                                                                                                                                                                                                                                                                                                                                                   841
                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121
TGTTTTGCCAACATCTGATGATATGTCTTGGTGCTTACAAAAGCCTTGTTTTTTATCTTC 1260
                                               GGCTCTAAGATGCATGACTGACACGTGTGCGTCTGTCGTTTCTTAATAAAGTTATAGATGA 1200
                             GGCTCTAAGATGCATGACTGACACTGTGCGTCTGTCGTTTTTTAATAAAGTTATAGATGA 1200
                                                                                          GGTCCTCGACATGCAGGACCCTAGGCCCCGTTAGAATGGGGCTTGTCCATAAGAGAGTTG
                                                                                                              GGTCCTCGACATGCAGGACCCTAGGCCCCGTTAGAATGGGGCTTGTCCATAAGAGAGTTG
                                                                                                                                                       CTATATAGTGCTTGAGACCTCGACATGAAGGTGTCCTAGGAAGCCCAAGGCTCTCGCGTAA
                                                                                                                                                                                                                                    CGTCAACTACTAAAATCTATTTATAGAAAGTGGTTAACCCTATTTCCCCTTTCAGCACACT 1020
                                                                                                                                                                         CTATATAGTGCTTGAGACCTCGACATGAAGGTGTCCTAGGAAGCCAAGGCTCTCGCGTAA
                                                                                                                                                                                                                  CGTCAACTACTAAAATCTATTTATAGAAAGTGGTTAACCCTATTTCCCTTTCAGCACACT
                                                                                                                                                                                                                                                                                                  CCTTTGCTTCATTTTTTATTGTGTCGCTAACTGGATTTCTTTTTTGGTTTGTGTTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                               GGGCGCCTGGCCTGGTGCACCGAACAATGTATGGTGCGCCAAAAATCAGCACACTCAAGT
                                                                                                                                                                                                                                                                                  GGGCGCCTGGCCACCGAACAATGTATGGTGCGCCAAAAATCAGCACACTCAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GACAGTCCGATGAATTATAGCGGASCGCGCCTCTGAATTCCCCGAGTGTGGCCTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GACAGTCCGATGAATTATAGCGGASCGCGCCTCTGAATTCCCCGAGTGTGGCCCTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGGACAGTCCGGTGACCTCTGACTTCTGTGTTCTAACTTCTGTCGCGGGCACTGTTTCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCAAAATACTTAGAAATGGCCCAAGGGCACATTTCCCTTTCAACAGTCCGGTGCCACAC
                                                                                                                                                                                                                                                                                                                                             CCTTTGCTTCATTTTTTATTGTGTCGCTAACTGGATTTCTTTTTGGTTTGTGTTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CGGACAGTCCGGTGACCTCTGACTTCTGTCTAACTTCTGTCGCGGCACTGTTTCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCAAAATACTTAGAAATGGCCCAAGGGCACATTTCCCTTTCAACAGTCCGGTGCCACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TACTTGGTTTGTACTTTGTCCACCATTTAACACTTGGGCACTTGTGTTGGACACTAAATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TACTTGGTTTGTACTTTGTCCACCATTTAACACTTGGGCACTTGTGTTGGACACTAAATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACTTAGACACAATACATTAGTCTCTAAAACAATGTATTAATTCTGAGAAACATACCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACTTAGACACAATACATTAGTCTCTAAAACAATGTATTAATTCTGAGAAACATACCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGCTGACTTTGGCTGAACAAAGTCATCTTTAGTTCCAACTTGATTTTTCCTGTTTTCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAGCCTGGCGCACCGGACACTGTCCGGTGAACCACCGGACAGTCCGGTGCACCCAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAGACCGTTGGCCCGACCGACCGTTGGCTCACCGGACAGTCCGGTGCACACCAGACAGT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GACAGTCAGGTGCCCCCTTCCGACCGTTGGCTCGGCCACGTGTTTCGCGCGGGATCGCGCG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGCTGACTTTGGCTGAACAAAGTCATCTTTAGTTCCAACTTGATTTTTCCTGTTTCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCGGTGAATTATAGCCGTACGCCGTTAATCACTTCCCGAGAGCAGCAAGTTCGCCTGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCGGTGAATTATAGCCGTACGCCGTTAATCACTTCCCGAGAGCAAGTTCGCCTGAGC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCAGACCGTTGGCCCGACCGTTGGCTCACCGGACAGTCCGGTGCACACCAGACAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGCCTGGCGCACCGGACACTGTCCGGTGAACCACCGGACAGTCCGGTGCACCCAGTCAG
```

1140 1140 1080 1080 1020

960 960 900 840

780 720 660 660 600

600

540

540

480

420

360 360 300

480

900 840

```
Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                    뮍
                                                                                                                                                                                                                                                                                                                                                                                             Ś
                                                                                                                                                                                                                                                                                                                                                                                                                        Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              뭕
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                      Ś
                                                                                                                                                밁
                                                                                                                                                                         S
                                                                                                                                                                                                     밁
                                                                                                                                                                                                                              Ś
                                                                                                                                                                                                                                                                                                               밁
-8
                                    밁
                                                           Š
                                                                                         맑
                                                                                                                   S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1441
                                                                                                                                                                                                                                                                                                                1921
                                                                                                                                                                                                                                                                                                                                          1921
                                                                                                                                                                                                                                                                                                                                                                      1861
                                                                                                                                                                                                                                                                                                                                                                                                1861
                                                                                                                                                                                                                                                                                                                                                                                                                          1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1561
                                                                                           2161
                                                                                                                                                2101
                                                                                                                                                                             2101
                                                                                                                                                                                                     2041
                                                                                                                                                                                                                                 2041
                                                                                                                                                                                                                                                            1981
                                                                                                                      2161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTTGGCTTGCAAATCGAGAGTCCCGGTACGAAAAGTACTCGTTGTCTCTTTGACCCAATAA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCGACATGTGGGTGCAACAAACAAACATGGGGGGCACAACACACCTCACCTCATATAACTA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTATCTCGAAGATACATCTCGTTGCGGAAGCATAAGGTAGCTTTGGAGGTAAAGCTTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAAGCTTGTTATGTAAAACAAACTAATTTCGAGAGAGGCTGATTGAGGAGAAAGTCTGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCAAAGTGACTTGTTTTTTGGACCTTTGACACATAGCCTTTAAAGTAGAITTTCACAATT 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATCAAATACACCTTCTTACACAATTTGTCCATTTTATATTTTTCGTTTCCAATAACAAAC 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATCAAATACACCTTCTTACACAATTTGTCCATTTTATATTTTTCGTTTTCCAATAACAAAC 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTTGGCTTGCAAATCGAGAGTCCCGTACGAAAGTACTCGTTGTCTCTTGACCCAATAA 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCGACATGTGGGTGCAACAAACAACATGGGGGCACAACACACCTCACCTCATATAACTA 1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTATCTCGAAGATACATCTCGTTGCGGAAGCATAAGGTAGCTTTGGAGGTAAAGCTTAGA 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTCACACGTGCTTGAACGGCGTAGGAAGTGTTGGAATTTCCCTTCTTATGATTTATAGA 1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCGATGATTCAATTGGACGAAATCGATGTTTAAACTGTCTTGTTGATTAAATTTCTAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCAAAGTGACTTGTTTTTTTGGACCTTTGACACATAGCCTTTAAAGTAGATTTCACAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCGATGATTCAATTGGACGAAATCGATGTTTAAACTGTCTTGTTGATTAAATTTCTAGC
                                                                                                                                                                                                                     GCCGTCGACGTCACCCTGGTCAGGCGTCACTTGACGACGTATACAGGGGCACAGGGCTCA 2100
                                                                                                                                                                                                                                                                                  TGGGGACCGTAGAGACTAGAGAGGATGAGGACGACGCCAGGCAGACGAGCCTTGCCGATT 2040
                                                                                                                                                                                                                                                                                                                                            GTAACAGAAAAACATGGACATATTGATTTTTGAAAAAAGAAATATTGACAGATAAGGTGT
                                                                                                                                                                                                                                                                                                                                                                    CATATAACTTCAGTCTTTCTTTTTTTAATAGTCACAAGAAACTTTCACACACCTACTAGGA
                                                                                                                                                                                                                                                                                                                                                                                    TTCACACGTGCTTGAACGGCGTAGGAAGTGTTGGAATTTCCCTTCTTATGATTTATTAGA
        GGTTTTCCTTCAAATTGCGCCGAAATACTCGAGATTTCTTGGATTTTTTTACTTGTTTAT
                                                                                                                                                                GGTTTTCCTTCAAATTGCGCCGAAATACTCGAGATTTCTTGGATTTTTTTACTTGTTTAT 2160
                                                                                                                                                                                                     GCCGTCGACGTCACCCTGGTCAGGCGTCACTTGACGACGTATACAGGGGCCACAGGGCTCA
                                                                                                                                                                                                                                                           GTAACAGAAAACATGGACATATTGATTTTTGAAAAAGAAATATTGACAGATAAGGTGT
                                                         TTCGATCCACTCTTTCCCCCATCCCTATCTCCCTACTTTCCACGCAACTGCGTTTCCCCCC
                                                                                         TOTATTOTCCTTCCGGCGCCTCTCTAGTCTATTCTCCTTCCTCGTCGAGTCGTCGTCTTC
                                       Tregarecaererrececcarecerarereceraerrecaegeaacrecerrrecee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1260
                                                                                                                                                                                                                                                                                                                                               1980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1380
                                                                                                                                                                                                                                                                                                                                                                          1920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1680
                                                                                                                                                                                                          2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1740
                                                                                                                                                                                                                                                               2040
                                                                                                                                                                                                                                                                                                                      1980
               2340
                                                                   2280
                                                                                               2220
                                                                                                                                                    2160
                                           2280
```

US-10-005-057A-41/c Sequence 41, Application US/10005057A Patent No. US20020170087A1 GENERAL INFORMATION:

APPLICANT: Tao, Yumin APPLICANT: Gordon-Kamm APPLICANT: Shen, Bo APPLICANT: Lowe, Keith APPLICANT: Danilevskay

Danilevskaya, Olga Shen, Bo Lowe, Keith S. Gordon-Kamm, William RESULT

```
RESULT 3
US-09-23-876-3107/c
y Sequence 3107, Application US/09923876
patent No. US20020013958A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               뮍
                                                                                                                                                                                                                                                                                               FEATURE:

NAME/KEY: misc feature

OTHER INFORMATION: Incyte ID No. US20020013958A1 700161672H1

US-09-923-876-3107
                                                                                                          Ś
                                                                                                                                                 망
                                 δ
                                                                        밁
                                                                                                                                                                                   Ş
                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 6332
SOFTWARE: PERL Program
SEQ ID NO 3107
LENGTH: 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Lalgudi, Raghunath V.
APPLICANT: Kamigaki, Laura Y. (Ito)
APPLICANT: Kamigaki, Faura Y. (Ito)
APPLICANT: Sherman, Bradley K.
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
FILE REFERENCE: PL-0012-1 CON
CURRENT APPLICATION NUMBER: US/09/923,876
CURRENT APPLICATION NUMBER: US/09/923,876
CURRENT FILING DATE: 1909-04-21
PRIOR APPLICATION NUMBER: 60/085,331
PRIOR APPLICATION NUMBER: 60/085,331
PRIOR APPLICATION NUMBER: 60/085,331
PRIOR APPLICATION NUMBER: 60/085,331
PRIOR FILING DATE: 1998-05-05
NUMBER OF SECTION NUMBER: 1998-05-05
                                                                                                                                                                                                                            Matches 138;
                                                                                                                                                                                                                                          Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             115
                                                                                                                                                                                     427 АСАСААТАСАТТАGTСТСТААААСААТGTATTAATTCTGAGAAACATACCTTTATACTTG 486
                                                                        174
                                                                                                              487
                                                                                                                                               233 ACACAACACATTAGTCCATAAAATAATGTACTAAGTCT-AGAAACATACCTTTTGACATG 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATATTTTCTGTTCCTGGCCTGACGCAGCGCCGGTGAGATTTCAGTCCGGGATCGGCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAGCACCGGCCAACCAATCCCTCACGTTATTCCCTGTAGCTACTATGCTGCCCTCTTGGA 2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTGGGAGGACTCGCGTGTGATTTACGCCGACTTCCGTGCCGCTCTAGGAAGGGTCACGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATATTTTCTGTTCCTGGCCTGACGCAGCGCCGGTGAGATTTCAGTCCGGGATCGGCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCCTTTTTCACTTGTCTGAGATTTAGCCACCGCCCGGTAGGAAGAAGAAGGGGAAGCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTTTGTACTTTGTCCACCATTT------AACACTTGGGCACTTGTGTTGGACACTA 536
                       AATCACCAAAATACTTAGAAATGGCCCAAGGGCACATTTCCCCTTTCAACAGT 588
                                                                        ATTTGTACTTTGTCCACCACATTGCATAGATCAACACAAAAAACACTTGTGTTGG-CACTC
AATCACCAAAATACTTAGAAATGGCCAAAAGGGCACATTTCCCCTTTCAGAAAT
                                                                                                                                                                                                                                            h 3.2%;
Similarity 80.2%;
                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                Score 82.8;
Pred. No. 1.
                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                8; DB 10;
1.9e-12;
                                                                                                                                                                                                                                                                  Length 233;
                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                  12;
                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . 2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2460
                                                                                  116
                                                                                                                                                                                                                                    ω,
```

```
Sequence 4089, Application US/09923876

Patent No. US20020013958A1

GENERAL INFORMATION:
APPLICANT: Lalgudi, Raghunath V.
APPLICANT: Kamigaki, Laura Y. (Ito)
APPLICANT: Sherman, Bradley K.
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
FILE REFERENCE: PL-0012-1 CON
CURRENT APPLICATION NUMBER: US/09/923,876
CURRENT APPLICATION NUMBER: US/09/923,876
CURRENT FILING DATE: 1999-04-21
PRIOR APPLICATION NUMBER: 60/28,329
PRIOR FILING DATE: 1999-04-21
PRIOR FILING DATE: 1998-05-05
NUMBER OF SEQ ID NOS: 6332
SOFTWARE: PERL Program
                                                                                                                                                                                                                                                                                                                                                                                                US-09-923-876-4089/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              뭥
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-005-057A-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 187;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/005,057A CURRENT FILING DATE: 2001-12-04 PRIOR APPLICATION NUMBER: 60/251,555 PRIOR FILING DATE: 2000-12-06 NUMBER OF SEQ ID NOS: 41 SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Transcriptional Regulator Nucleic Acids, TITLE OF INVENTION: Polypeptides and Methods of Use Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12097 ATCTCCCCCTTTTTGGTGATTGATGCCAACACA 12065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12396 ACCGGACAGTCCGGTGAATTATAGCGGAGTGCCTTTGAAAATTCCCGAAGGTGGCAAGTT 12337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 1288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12277 GGTTGTCTCTTTGCTCCTTTGTTGAATCCAAAACTTGATCTTTTTATTGGCTGAGTGTGA 12218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12336 TG-AGTTTGAGTCCTCTGGTGCACCGGACAGTCCGGTGCCCCAGACCAGAGGTGCCTTC 12278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:

NAME/KEY: misc_feature
LOCATION: (1)...(12561)

OTHER INFORMATION: Zmpk1 genomic sequence
NAME/KEY: misc_feature
LOCATION: (1)...(12561)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 12561
TYPE: DNA
ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: n = A,T,C or G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        897 ACCTTATGCACCTG-AGATAAATCACATCTAGCCAAACTAGTTAGTCCATGTGGTTTGTG 955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               717 ACCGGACAGTCCGATGAATTATAGCGGASCGCGCCTCTGAATTCCCGAGTGTGGCCTGTT 776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      956 TIGATCGTCAACTACTAAAATCTATTTATAG---AAAGTGGTTAACCCTATTTCCCTTTC 1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     837 AAGTCCTTTGCTTCATTTTTTATTGTGTCGCTAACTGGATTTCTTTTTGGTTTGTGTTGA 896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   777 TGAAGGGCGCCTGGCCTGGTGCACCGAACAATGTATGGTGCGCCCAAAAATCAGCACACTC 836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGCACACTCTATATAGTGCTTGAGACCTCGACA 1045
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGGGCAATTCAACCACCAAAATTAATTAGGGACTATAGGTGTAAGCCTAATTCCCTTTCA 12098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sakai, Hajime
Klein, Ted M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mahajan, Pramod
Rafalski, Antoni J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Mismatches 140;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 68.6; DB 9;
Pred. No. 9.6e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 12561;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5; Gaps
```

```
US-09-864-761-19262
                                                                                                                                                                                                                                                                                             밁
                                                                                                                                              RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-923-876-3931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-923-876-3931/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020013958A1 700454406H1
US-09-923-876-4089
                                                         Sequence 19262, Application US/09864761 Patent No. US20020048763A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PERL Program
SEQ ID NO 3931
LENGTH: 266
                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 3931, Application US/09923876
Patent No. US20020013958A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 4089
APPLICANT: Penn, Sharron G. APPLICANT: Rank, David R. APPLICANT: Hanzel, David K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: PL-0012-1 CON
CURRENT APPLICATION NUMBER: US/09/923,876
CURRENT FILLING DATE: 2001-08-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Lalgudi, Raghunath V.
APPLICANT: Kamigaki, Laura Y. (Ito)
APPLICANT: Kamigaki, Laura Y. (Ito)
APPLICANT: Sharman, Bradley K.
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR FILING DATE: 1998-05.
NUMBER OF SEQ ID NOS: 6332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/085,331
PRIOR FILING DATE: 1998-05-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 09/298,329 PRIOR FILING DATE: 1999-04-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: unsure
LOCATION: 201, 211, 234, 244-245
OTHER INFORMATION: a, t, c, g, or other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Incyte ID No. US20020013958A1 700454106H1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ENGTH:
                                                                                                                                                                                                            199
                                                                                                                                                                                                                                                                                                                   506 TITFAACACTTGGGCACTTGTGTGTGGACACTAAATCACCAAAATACTTAGAAATGGCCCAA 565
                                                                                                                                                                                                                                                 566 GGGCACATTTCCCTTTCA 583
                                                                                                                                                                                                                                                                                    259 TTTTACACACAACCNNTTGTGTTGGNCACTTAATCACCAAAATACTTANAAATGGCCCNA 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 554 GAAATGGCCCAAGGGCACATTTCCCTTTCA 583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    211 AMANTGGCCCAAGGGCACATTTCCCTTTCA 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 271 CATTTGTCATAGTTTAACACACAACCATTTGTGTTGGACACTTAATCACCAAAATACTTA 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         494 CTTTGTCCACCATTTAACACTTGGGCACTTGTGTTGGACACTAAATCACCAAAATACTTA 553
                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
mes 75; Conserv
                                                                                                                                                                                                                                                                                                                                                                            66;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      281
                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                              84.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2.6%;
                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                       Score 61.8; DB 10;
Pred. No. 7.5e-07;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 66; DB 10;
Pred. No. 5.9e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 281;
                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
```

APPLICANT:

Chen,

Wensheng

FOR

```
В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR PELLING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR PELLING DATE: 2000-08-03
PRIOR FILING DATE: 2000-08-03
PRIOR PELLING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR PELLING DATE: 2000-09-27
PRIOR PELLING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR PILING DATE: 2001-01-30
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
                                                                                                                                                                                                                                                                                                US-09-864-761-19262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Annomax
SEQ ID NO 19262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR ADDITION ADDITION
                                                                                                                                                     Matches
                                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT FILING DATE: 2001-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY FILE REFERENCE: Aeomica-X-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 49117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: PCT/US01/00665
                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER
OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER
OTHER
OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER
OTHER
OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER
OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENGTH:
                                                     2132 AGATTICTIGGATTITITIACTIGITTATICTATICTCCTICCGGCGCCCTCTCTAGICTA 2191
       FILING DATE: 2000-09-21
APPLICATION NUMBER: US 09/608,408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: PCT/US01/00662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US01/00663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 60/234,687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: PCT/US01/00670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/US01/00661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US01/00668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 09/774,203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION:
                                                                                                                                                                                                                                                                                                                                  INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                     INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION: MAP TO AC011416.1
                                                                                                                                                     140;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 305
                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                   DN. EXPRESSED IN PLACENTA, SIGNAL = 3.6

NN. EXPRESSED IN HEART, SIGNAL = 1.8

NN. EXPRESSED IN HEART, SIGNAL = 3.9

NN. EXPRESSED IN HELA, SIGNAL = 2.7

NN. EXPRESSED IN HELA, SIGNAL = 2.4

NN. EXPRESSED IN HELA, SIGNAL = 2.8

NN. EXPRESSED IN HING, SIGNAL = 3.5

NN. EXPRESSED IN HING, SIGNAL = 3.6

NN. EXPRESSED IN ADULT LIVER, SIGNAL = 3.6

NN. EXPRESSED IN ADULT LIVER, SIGNAL = 3.6

NN. EXPRESSED IN FETAL LIVER, SIGNAL = 3.6

NN. SMISSPROT HIT: D05156, EVALUE 9.40e+00

NN. NT HIT: U67539.1, EVALUE 7.40e-01

NN. EST_HUMAN HIT: BF129635.1, EVALUE 1.10e+00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence Listing Engine vers. 1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2001-01-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000-06-30
                                                                                                                                                                                    1.8%;
                                                                                                                                                 0
                                                                                                                                                                                    Score 46.4; DB 10;
Pred. No. 0.0098;
                                                                                                                                                     Mismatches
                                                                                                                                                         136;
                                                                                                                                                         Indels
                                                                                                                                                                                                                       Length 305;
                                                                                                                                                         2
                                                                                                                                                         Gaps
                                                                                                                                                         ۲,
```

```
Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 8
US-09-771-208-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Patent No. US20020155564A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: 407T-923710US
CURRENT APPLICATION NUMBER: US/09/771,208
CURRENT FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: US 08/999,477
PRIOR FILING DATE: 1997-12-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: BRADFORD, ERIC
APPLICANT: HORVAT, SIMON
TITLE OF INVENTION: CLONING OF A HIGH-GROWTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: MEDRANO, JUAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: n is unidentified NAME/KEY: misc_feature LOCATION: (494715)...(494814) OTHER INFORMATION: n is unidentified OTHER INFORMATION: n is unidentified
                                                                                                                                                                                 NAME/KEY: misc_feature
LOCATION: (280353)...(280373)
OTHER INFORMATION: n is unidentified
                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: misc_feature
roration: (390986)..(391005)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: misc_feature
rocation: (546998)..(547017)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: (123459)..(123478)
OTHER INFORMATION: n is unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Mus musculus
              NAME/KEY: misc_feature
LOCATION: (183872)..(183891)
LOCATION: (183872).. is unidentified
OTHER INFORMATION: n is unidentified
NAME/KEY: misc_feature
LOCATION: (170625)..(170645)
OTHER INFORMATION: n is unidentified
NAME/KEY: misc_feature
                                                                                                                               NAME/KEY: misc_feature
LOCATION: (271829)..(271848)
OTHER INFORMATION: n is unidentified
                                                                                                                                                                                                                                    NAME/KEY: misc_feature
LOCATION: (317174)..(317193)
OTHER INFORMATION: n is unidentified
                                                                                                                                                                                                                                                                                           NAME/KEY: misc_feature
LOCATION: (346860)..(346823)
OTHER INFORMATION: n is unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: (602466)..(602485)
OTHER INFORMATION: n is unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2192 TTCTCCTTCCTCGTCGACGTCGTCTTCTTCGATCCACTCTTTCCCCCCATCCCTATCTC 2251
                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: n is unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2252 CCTACTTTCCACGCAACTGCGTTTCCCCCGGGACTCTTCTTCCACGATTCCGTTGGACCCC 2311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ENGTH: 659158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2372 CCCTGTAGCTACTATGCTGCCCTCTTGGATCCCTTTTT 2409
JAME/KEY: misc_feature
JOCATION: (132680)..(132700)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             248 GTCTTTTGGAATAATAATACTTTCTGTGAGTTTTTTT 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TACCGCTCCTCAGTCAGTCCTCGCCCCTCCCAGCACCGGCCAACAATCCCTCACGTTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCTTCTCTCTCTTTCTCTCTCTCTCCCCCACCCCAACCACACACACACTTTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Application US/09771208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         feature
                                                                                                                                                                                                                                                                                              a,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                            a,
                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                   à
                                                                                                                                      a,
                                                                                                                                                                                           а
,
                                                                                                                                                                                                                                                                                                                                               a,
                                  a,
                                                                                                                                                                                                                                                                                              c,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           c,
                                                                                     ņ
                                                                                                                                        ú
                                                                                                                                                                                           ú
                                                                                                                                                                                                                                             ņ
                                                                                                                                                                                                                                                                                                                                                 ū
                                                                                                                                                                                                                                                                                                                                                                                                    ú
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ç
                                    Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           á
                                  á
                                                                                   ω
                                                                                                                                      á
                                                                                                                                                                                           á
                                                                                                                                                                                                                                                                                              g, or
                                                                                                                                                                                                                                                                                                                                                 ά
                                                                                                                                                                                                                                                                                                                                                                                                  ā
                                                                                                                                                                                                                                                                                                                                                                                                                                                       á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ဝူ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              o
R
                                                                                                                                                                                                                                             or
                                                                                                                                                                                                                                                                                                                                                                                                    ဝူ
                                                                                                                                                                                                                                                                                                                                                                                                                                                       o
R
                                      or
                                                                                                                                                                                            Ö,
                                                                                                                                                                                                                                                                                                                                                   ç
                                                                                                                                         or t
```

```
US-09-864-761-21553/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Db 504711 CTCCCCTCTCCCCCCCCCTCTCCCCCCCTCTCCCC 504754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-771-208-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21553, Application US/09864761 Patent No. US20020048763A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                              PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: US 60/180,312 PRIOR FILING DATE: 2000-02-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Penn, Sharron G. APPLICANT: Rank, David R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: Aeomica-X-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: misc_feature
OTHER INFORMATION: n is a, c, g, or t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: n is unidentified a,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2324 GTCAGTCCTCGCCCTCCCAGCACCGGCCAACAATCCCTCACGT 2367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2264 GCAACTGCGTTTCCCCCGGACTCTTCTTCCACGATTCCGTTGGACCCCTACCGCTCCTCA 2323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2204 GIÇGAGIÇGIÇGIÇTIÇTIÇGAIÇCAÇIÇITIÇÇÇÇCAIÇÇÇIAIÇIÇÇÇAÇÇITIÇÇAÇ 2263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
les 113; Conserv
                             APPLICATION NUMBER: PCT/US01/00670 FILING DATE: 2001-01-30 APPLICATION NUMBER: US 60/234,687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 60/207,456
APPLICATION NUMBER: US 09/608,408
                                                                                                                                                                    FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00663
                                                                                                                                                                                                    FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00668
                                                                                     APPLICATION NUMBER: PCT/US01/00661 FILING DATE: 2001-01-30
                                                                                                                        APPLICATION NUMBER: PCT/US01/00662 FILING DATE: 2001-01-30
                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                         FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00665
                                                                                                                                                                                                                                                         APPLICATION NUMBER: PCT/US01/00669 FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US01/00664
                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: PCT/US01/00667
                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: GB 24263.6 FILING DATE: 2000-10-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 2000-05-26
APPLICATION NUMBER: US 09/632,366
                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 60/236,359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US01/00666
                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LING DATE: 2000-09-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Then, Wensheng
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                    2001-01-30
                                                                                                                                                   2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                    2000-09-27
                                                                                                                                                                                                                                                                                              2001-01-30
                                                                                                                                                                                                                                                                                                                               2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                David K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 46.4; DB Pred. No. 0.64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches 111; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ά
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 659158;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
```

```
밁
                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-764-870-611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-764-870-611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-864-761-21553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 611, Application US/09764870 Patent No. US20020042386A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                          Matches 113;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Pa
SEQ ID NO 611
                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and
FILE REFERENCE: PTZ14
CURRENT APPLICATION NUMBER: US/09/764,870
CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 21553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
2179 CCTCTCTAGTCTATTCTCCTTCCTCGTCGAGTCGTCGTCTTCTTCGATCCACTCTTTCCC 2238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER
OTHER
OTHER
OTHER
OTHER
OTHER
OTHER
                                                                   2239 CCATCCCTATCTCCCTACTTTCCACGCAACTGCGTTTCCCCCGGACTCTTCTTCCACGAT 2298
                                                                                                                                                                  4974
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ENGTH: 32195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2243 CCCTATCTCCCTACTTTCCACGCAACTGCGTTTCCCCGGACTCTTCTTCCACGATTCC 2301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                           CCCCTCCCTCTTACTCTCCCCCCTCTTACTCTCCCCCTCTCTCTCTCTCTCTCTCCC 5033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 corcererected and a content of the c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rcradiciariciccircciccacciccicciccircircirccacicitriccicciai 2242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96;
                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.8%;
Similarity 53.6%;
                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N: EXPRESSED IN PLACENTA, SIGNAL = 4.9

N: EXPRESSED IN HELA, SIGNAL = 7.8

N: EXPRESSED IN HET474, SIGNAL = 5.5

N: EXPRESSED IN BRAIN, SIGNAL = 6.1

N: EXPRESSED IN HEARIN, SIGNAL = 5.5

N: EXPRESSED IN HEARIN, SIGNAL = 5.6

N: EXPRESSED IN ADULT LIVER, SIGNAL = 5.1

N: EXPRESSED IN FETAL LIVER, SIGNAL = 6.8

N: EXPRESSED IN LUNG, SIGNAL = 5.9

N: EXPRESSED IN LUNG, SIGNAL = 5.9

N: EXPRESSED IN LUNG, SIGNAL = 5.9

N: EXPRESSED IN BONE MARROW, SIGNAL = 5.3

N: EXPRESSED IN BONE MARROW, SIGNAL = 5.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MAP TO AL021332.1
                                                                                                                                                                                                                                                                                                                                    1.8%;
                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                         Score 45.2; DB Pred. No. 0.26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 46.2; DB Pred. No. 0.011;
                                                                                                                                                                                                                                                                                           Mismatches 113;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                               DB 10; Length 32195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                83; Indels
                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 299;
                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
```

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 11
US-09-764-870-617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-764-870-617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ś
Ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 12
US-09-764-869-1605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                   ; ORGANISM: Homo sapiens US-09-764-869-1605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 617, Application Patent No. US20020042386A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1605, Application US/09764869 Patent No. US20020061521A1
                                                                                                                                                                                                                   SEQ ID NO 1605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/764,870 CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: PTZ14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
                                              Matches 113; Conservative
                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                        APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PC007
CURRENT APPLICATION NUMBER: US/09/764,869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Ver.
                                                                                                                                                                                                                                                           Prior application data removed - refer to PALM or file wrapper NUMBER OF SEQ ID NOS: 2442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                        CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5094 CTCTCTCCCCCCTACTCTCCCTCCCCTCCCCCCTCTTACTCTCTCCCCTCTCT 5153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5154 CCCCCTCCCTCACCCCTTCCCTCACCCCCTCACTCAGTCTCC 5199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2299 TCCGTTGGACCCCTACCGCTCCTCAGTCAGTCCTCGCCCCTCCCAGCACCGGCCAACAAT 2358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2359 CCCTCACGTTATTCCCTGTAGCTACTATGCTGCCCCTCTTGGATCCC 2404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2179 CCTCTCTAGTCTATTCTCCTTCCTCGTCGAGTCGTCGTCTTCTTCGATCCACTCTTTCCC 2238
    2179 CCTCTCTAGTCTATTCTCCTTCCTCGTCGAGTCGTCGTCTTCTTCGATCCACTCTTTCCC 2238
                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5034 CCCTCTCTCACCCCCTCAGTCTCCCCCCTCTGTCTTACTCTCCTCCTTACTCTCCTCC 5093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4974 CCCCTCCCTCTTACTCTCCTCCTCTTACTCTCCTCCTCTCTCTCTCTCTCTCTCCCC 5033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH: 32195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2359 CCCTCACGTTATTCCCTGTAGCTACTATGCTGCCCTCTTGGATCCC 2404
                                                                                                                                                                                             ENGTH: 32195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                Match 1.8%;
Local Similarity 50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCCCCTCCCTCACCCCTTCCCTCTCACCCCTCACTCAGTCTCC 5199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCCGTTGGACCCCTACCGCTCCTCAGTCAGTCCTCGCCCCTCCCAGCACCACCGGCCAACAAT 2358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCATCCCTATCTCCCTACTTTCCACGCAACTGCGTTTCCCCCGGACTCTTCTTCCACGAT 2298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tch 1.8%; al Similarity 50.0%; ii3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Application US/09764870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 45.2; DB 10; Length 32195; Pred. No. 0.26; 0; Mismatches 113; Indels 0;
                                                   0,
                                                                     Score 45.2; DB Pred. No. 0.26;
                                                     Mismatches 113;
                                                                                           DB 10;
                                                                                                                                                                                                                                                                                                                                                                           and Antibodies
                                                       Indels
                                                                                             Length 32195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                       0
                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
```

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; NAME/KEY: promoter; LOCATION: (1)...(2715) US-10-047-593-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-047-593-5/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ś
                                                                                                                             GENERAL INFORMATION:
APPLICANT: Crane, Edmund H. III
APPLICANT: Rice, Douglas A.
                                                                                                                                                                                                                                           US-10-047-593-3/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 5, Application US/10047593 Patent No. US20020170094A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 5
LENGTH: 2715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                           Sequence 3, Application US/10047593 Patent No. US20020170094A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/047,593
CURRENT FILING DATE: 2002-01-15
PRIOR APPLICATION NUMBER: 60/130,692
PRIOR FILING DATE: 1999-04-23
PRIOR APPLICATION NUMBER: 09/551,778
PRIOR APPLICATION NUMBER: 09/551,778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Crane, Edmund H. III
APPLICANT: Rice, Douglas A.
TITLE OF INVENTION: Maize NPR1 Polynucleotides and Methods
TITLE OF INVENTION: of Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: 1090D2
                  FILE REFERENCE: 1090D2
CURRENT APPLICATION NUMBER: US/10/047,593
CURRENT FILING DATE: 2002-01-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR FILING DATE:
                                                                                  TITLE OF INVENTION: Maize NPR1 Polynucleotides and Methods TITLE OF INVENTION: of Use
PRIOR APPLICATION NUMBER: 60/130,692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5154 coccerecerexecerrecerecececececexeses 5199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5034 cecrerencececercagierececererereriaererecererererecererencerecerece 5093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2239 CCATCCCTATCTCCCTACTTTCCACGCAACTGCGTTTCCCCCGGACTCTTCTTCCACGAT 2298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2359 CCCTCACGTTATTCCCTGTAGCTACTATGCTGCCCTCTTGGATCCC 2404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                188 GTTGGCCCGACCGACCGTTGGCTCACCGGACAGTCCGGTGCACACCAGACAGTCCGGTGA 247
                                                                                                                                                                                                                                                                                                                              232 GTGTGCACCGGACTGTCCGGTGAGCCAACGGTCGGTCGGGCCAAC 188
                                                                                                                                                                                                                                                                                                                                                                     308 GCGCACCGGACACTGTCCGGTGAACCACCGGACAGTCCGGTGCAC 352
                                                                                                                                                                                                                                                                                                                                                                                                                  292 GAACTTGCTGCTCTCGGGAAGTGATTAACGGCGTACGGCTATAATTCACCGGACTGTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rccerregaccccraccecricricaercaerccreccccccaecaccegccaacaar 2358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.7%;
Similarity 54.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000-04-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 45; DB 9; -----
Pred. No. 0.074;
Prescribes 75; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 9; Length 2580;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
```

```
RESULT 15
US-09-960-352-15014/c
US-09-960-352-15014, Application US/09960352
Patent No. US20020137139A1
GENERAL IMPORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; PRIOR FILING DATE: 1999-04-23; PRIOR APPLICATION NUMBER: 09/551,778; PRIOR PILING DATE: 2000-04-18; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FASESEQ for Windows Version 4.0; SEQ ID NO 3; LENGTH: 7789; TYPE: DNA; CARANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ś
                                                                                                                             NUMBER OF SEQ ID NOS: 15112
SEQ ID NO 15014
LENGTH: 375
Query Match
Best Local Similarity
                                           TYPE: DNA
ORGANISM: Bos taurus
OTHER INFORMATION: Clone ID: 64-LIB3058-048-Q1-K1-H8
-09-960-352-15014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 90; Conserv
                                                                                                                                                                     APPLICANT: Warren, Wesley C.
APPLICANT: Tao, Nengbing
APPLICANT: Byatt, John C.
APPLICANT: Byatt, John C.
APPLICANT: Mathialagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
FILE REFERENCE: 16511.006/37-21(10298)C
CURRENT APPLICATION NUMBER: US/09/960,352
CURRENT FILING DATE: 2001-09-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: exon
LOCATION: (5666)...(5922)
NAME/KEY: 3'UTR
LOCATION: (5926)...(6124)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: intron
LOCATION: (5476)...(5665)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: promoter LOCATION: (1)...(2715)
NAME/KEY: 5'UTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    232 GTGTGCACCGGACTGTCCGGTGAGCCAACGGTCGGTCGGGCCAAC 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          308 GCGCACCGGACACTGTCCGGTGAACCACCGGACAGTCCGGTGCAC 352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    292 GAACTTGCTGCTCTCGGGAAGTGATTAACGGCGTACGGCTATAATTCACCGGACTGTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              248 АТТАГАССССТАССССТТАЛТСАСТТССССАСАССАССТАССТСТСАСССТС 307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     188 GTTGGCCCGACCGACCGTTGGCTCACCGGACAGTCCGGTGCACACCAGACAGTCCGGTGA 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (5275) . . . (5475)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (4739) . . . (5274)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (3988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (3436) . . . (3987)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (2716) ... (2781)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (2782) . . . (3435)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ... (4738)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.7%;
1.6%;
51.0%;
Score 42.4; DB 10; Length 375; Pred. No. 0.13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 45; DB 9; Length 7789; Pred. No. 0.13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              75; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ٥,
```

```
밁
                                                               Ś
                                                                                       밁
                                                                                                           Ś
                                                                                                                                  밁
                                                                                                                                                                            Matches
                                                                                                                                           1949 ТТТGАААААДАААТА 1964
                                                                                                     1829 AȚTCAȚTACGGȚATTTATTAGGGATACGTTGACATATAACȚTCAGTCTTTTTTTTAAȚ 1888
                                                                                                                                  308
128 AAAAAAAAAAAAAA 113
                                        AGTCACAAGAACTTTCACACACCTACTAGGAGTAACAGAAAAACATGGACATATTGATT 1948
                                                                               100; Conservative
                                                                                                                                                                         0; Mismatches
                                                                                                                                                                         96; Indels
                                                                                                                                                                       0; Gaps
```

Search completed: February 3, 2003, 19:02:48 Job time : 1438 secs

•			
	·		